

Title (en)
CRACKING CATALYST, PROCESS FOR PREPARATION THEREOF, AND PROCESS FOR CATALYTIC CRACKING OF HYDROCARBON OIL

Title (de)
CRACKKATALYSATOR, HERSTELLUNGSVERFAHREN DAFÜR UND VERFAHREN ZUM KATALYTISCHEN CRACKEN VON KOHLENWASSERSTOFFÖL

Title (fr)
CATALYSEUR DE CRAQUAGE, SON PROCEDE DE PREPARATION ET PROCEDE DE CRAQUAGE CATALYTIQUE D'HYDROCARBURE LIQUIDE

Publication
EP 2008711 A4 20120829 (EN)

Application
EP 07715160 A 20070302

Priority
• JP 2007054066 W 20070302
• JP 2006079209 A 20060322

Abstract (en)
[origin: EP2008711A1] A catalytic cracking catalyst is provided which has high cracking activity and with which the production of FCC gasoline having a high octane number can efficiently proceed without lowering a gasoline yield. Also provided are a process for producing the catalyst and a method of the catalytic cracking of a hydrocarbon oil with the catalyst. The catalyst for catalytic cracking of a hydrocarbon oil comprises a crystalline aluminosilicate, a binder, and a clay mineral in a certain proportion, wherein the content of sodium and potassium therein is 0.5% by mass or lower in terms of oxide (Na₂O and K₂O) amount, the content of at least one rare earth metal therein is 3.0% by mass or lower in terms of oxide (RE₂O₃, wherein RE is a rare earth element) amount, the [RE₂O₃ + Na₂O + K₂O]/[crystalline aluminosilicate] ratio by mass is 0.1 or lower, and the catalyst has a xenon adsorption amount, as measured at an adsorption temperature of 25°C and a partial xenon pressure of 650 torr, of 2.20×10²⁰ molecules or more per g of the catalyst. Also provided are a process for producing the catalyst and a method of catalytic cracking of a hydrocarbon oil with the catalyst.

IPC 8 full level
B01J 21/16 (2006.01); **B01J 37/00** (2006.01); **B01J 37/06** (2006.01); **C10G 11/05** (2006.01)

CPC (source: EP KR US)
B01J 21/16 (2013.01 - KR); **B01J 29/06** (2013.01 - EP US); **B01J 29/088** (2013.01 - EP US); **B01J 35/30** (2024.01 - EP US); **B01J 37/00** (2013.01 - KR); **B01J 37/06** (2013.01 - KR); **C10G 11/05** (2013.01 - EP KR US); **B01J 21/16** (2013.01 - EP US); **B01J 2229/42** (2013.01 - EP US); **C10G 2400/02** (2013.01 - EP US)

Citation (search report)
• [X] GB 2345293 A 20000705 - MOBIL OIL CORP [US], et al
• [X] EP 0236548 A1 19870916 - KATALISTIKS INT INC [US]
• See also references of WO 2007108297A1

Cited by
CN102776020A; EP2780284A4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2008711 A1 20081231; **EP 2008711 A4 20120829**; **EP 2008711 B1 20190501**; CA 2643099 A1 20070927; CA 2643099 C 20150707; CN 101405078 A 20090408; CN 101405078 B 20121128; JP 2007253038 A 20071004; JP 4948863 B2 20120606; KR 101420448 B1 20140716; KR 20080112241 A 20081224; MY 150085 A 20131129; US 2010236983 A1 20100923; US 9861966 B2 20180109; WO 2007108297 A1 20070927

DOCDB simple family (application)
EP 07715160 A 20070302; CA 2643099 A 20070302; CN 200780009985 A 20070302; JP 2006079209 A 20060322; JP 2007054066 W 20070302; KR 20087022973 A 20070302; MY PI20083608 A 20070302; US 29359707 A 20070302